

**CLASS SPECIFICATION**  
**County of Fairfax, Virginia**

**CLASS CODE:** 6563    **TITLE:** INSTRUMENTATION TECHNICIAN II    **GRADE:** S-19

**DEFINITION:**

Under direction, to perform journeyman level work associated with the installation, maintenance, and repair of instrumentation and electronic equipment; and to do related work as required.

**ILLUSTRATIVE DUTIES:**

Makes frequent inspections and insures that electronic and pneumatic instrumentation used in various sewage treatment plant facilities is functioning properly;

Uses industrial test equipment such as ammeters, voltmeters, manometers, oscilloscopes and specialized test equipment made by the respective equipment suppliers to monitor and calibrate instrumentation systems;

Participates in a preventive maintenance program;

Investigates reports of equipment malfunctions and takes necessary corrective action;

Services equipment such as level indicators/controllers, flow indicators/controllers, current indicators/controllers, temperature indicator/controllers, ph, turbidity and chlorine residual meters;

Pneumatic controls used in conjunction with heating and/or air conditioning systems, and related systems;

Analyzes causes of instrument failures and irregular operation and recommends corrective measures to improve accuracy and reliability;

Keeps records on testing, calibration and repairs of all instruments.

**REQUIRED KNOWLEDGE, SKILLS, AND ABILITIES:**

Knowledge of electronic theory and of the methods and practices of electronic equipment repair;  
Knowledge of the functioning and maintenance of process control instrumentation and electronic equipment;

Ability to locate and correct defects in electronic and instrumentation devices;

Skill in the use of tools and test equipment;

Ability to read instrumentation data accurately and to maintain records of maintenance activities;

Ability to understand and follow oral and written instructions and work from circuit diagrams and manufacturer's manuals.

**EMPLOYMENT STANDARDS:**

Graduation from high school or the equivalent supplemented by a technical training program in electronics and one year of experience in electronic and instrumentation repair work at the level of Instrumentation Technician I or above.

REGRADED:            July 1, 2005